CONTENTS OF *AQUATIC BOTANY*, VOLUME 32

VOL. 32 NOS. 1–2 OCTOBER 1988

Tidal salt marsh restoration
S.W. Broome, E.D. Seneca and W.W. Woodhouse, Jr. (Raleigh, NC, U.S.A.) 1
A study on floristic structure and dynamics of communities with *Potamogeton alpinus* Balbis in water bodies of the northern part of the Federal Republic of Germany
H. Brux, W. Herr, D. Todeskino and G. Wiegleb (Oldenburg, F.R.G.) 23
Distribution of three nymphaeid macrophytes (*Nymphaea alba* L., *Nuphar lutea* (L.) Sm. and *Nymphoides peltata* ((Gmel.) O. Kuntze) in relation to alkalinity and uptake of inorganic carbon
A.J.M. Smits, M.J.H. de Lyon, G. van der Velde, P.L.M. Steentjes and J.G.M. Roelofs (Nijmegen, The Netherlands) 45
Apoplastic tracer studies in the leaves of a seagrass. 1. Pathway through epidermal and mesophyll tissues
A.D. Barnabas (Durban, South Africa) 63
Differential distribution between sub-species of the mangrove *Ceriops tagal*: competitive interactions along a salinity gradient
T.J. Smith, III (Townsville, Qld., Australia) 79
Evaluation of the emergence method in estimating seed bank composition of prairie wetlands
K. A. Poiani and W. Carter Johnson (Blacksburg, VA, U.S.A.) 91
Isoetid–zoobenthos associations in acid-sensitive lakes in Ontario, Canada
R.L. France and P.M. Stokes (Toronto, Ont., Canada) 99
Seasonal patterns in accumulation and partitioning of biomass and macronutrients in *Typha* spp.
E.G. Garver, D.R. Dubbe and D.C. Pratt (St. Paul, MN, U.S.A.) 115
An experimental comparison of the dry matter and nutrient distribution patterns of *Typha latifolia* L., *Typha angustifolia* L., *Sparganium eurycarpum* Engelm. and *Phragmites australis* (Cav.) Trin. ex Steudel
K. E. Ulrich and T. M. Burton (East Lansing, MI, U.S.A.) 129
Effect of sewage treatment plant effluents on the distribution of aquatic hyphomycetes in the River Erms, Schwäbische Alb, F.R.G.
K. Suberkropp (Las Cruces, NM, U.S.A.), A. Michelis, H.J. Lorch and J.C.G. Ottow (Hohenheim, F.R.G.) 141
The ecology of sporulation by the macroalga *Ulva lactuca* L. (Chlorophyceae)
R. A. Niesenbaum (Groton, CT, U.S.A.) 155
Critical concentrations of tissue nitrogen and phosphorus for growth rate and yield in the freshwater blue-green alga *Microcystis aeruginosa* Kütz. in the tropics
J.A. Colman and C.R. Santha (Bangkok, Thailand) 167
Halophila decipiens Ostenf. in Southern India
N. Parthasarathy, K. Ravikumar and K. Ramamurthy (Coimbatore, Tamil Nadu, India) 179

Short Communications

The taxonomic position of *Ruppia* populations along the Cantabrian coast
C. Aedo and M.A. Fernández Casado (Oviedo, Spain) 187
The effects of extracts from *Chara tomentosa* and two other aquatic macrophytes on seed germination
S. Kleiven (Uppsala, Sweden) and W. Szczepańska (Mikolajki, Poland) 193

Book Reviews

Classical Hydrobiology 199
River Plants 200

Erratum 203

VOL. 32 NO. 3 NOVEMBER 1988

Interrelationships between the growth of *Hydrilla verticillata* (L.f.) Royle and sediment nutrient availability
J.W. Barko, R.M. Smart, D.G. Mcfarland and R.L. Chen (Vicksburg, MS, U.S.A.) 205
Biomass variance function for aquatic macrophytes in Ontario (Canada) Shield lakes
R.L. France (Toronto, Ont., Canada) 217
The distribution and abundance of herbaceous angiosperms in west-central Florida marshes
P.S. Botts and B.C. Cowell (Tampa, FL, U.S.A.) 225
Ecological studies on *Potamogeton pectinatus* L. II. Autecological characteristics, with emphasis on salt tolerance, intraspecific variation and isoenzyme patterns
R.J. van Wijk, E.M.J. Van Goor and J.A.C. Verkley (Nijmegen, The Netherlands) 239
Significance of sedimentary phosphorus to a rooted submersed macrophyte (*Najas flexilis* (Willd.) Rostk. and Schmidt) and its algal epiphytes
R.E. Moeller, J.M. Burkholder and R.G. Wetzel (Hickory Corners, MI, U.S.A.) 261
The effect of flooding on wild rice, *Zizania aquatica* L.
E. Pip and J. Stepaniuk (Winnipeg, Man., Canada) 283
Distribution of *Zostera marina* L. and *Ruppia maritima* L. sensu lato along depth gradients in the lower Chesapeake Bay, U.S.A.
R.J. Orth and K.A. Moore (Gloucester Point, VA, U.S.A.) 291

VOL. 32 NO. 4 DECEMBER 1988

Photosynthetic characteristics and pigment content and composition in *Littorella uniflora* (L.) Aschers. in a depth gradient
M. Søndergaard and G. Bonde (Risskov, Denmark) 307
Effects of mud vegetation on the nutrient condition of flood-plain lakes
I. Bagi (Szeged, Hungary) 321
The sex ratio and fruit production of laboratory germinated seedlings of *Halophila engelmannii* Aschers. (Hydrocharitaceae) from Redfish Bay, Texas
C. McMillan (Austin, TX, U.S.A.) and J. Jewett-Smith (Port Aransas, TX, U.S.A.) 329
Flowering and fruiting of *Zostera noltii* in Golfe Juan (French Mediterranean)
F. Loquès, G. Caye and A. Meinesz (Nice, France) 341
Production ecology of eelgrass (*Zostera marina* L.) in a Cape Cod salt marsh-estuarine system, Massachusetts
C.T. Roman (New Brunswick, NJ, U.S.A.) and K.W. Able (Tuckerton, NJ, U.S.A.) 353
Anatomical adaptations to rocky substrates and surf exposure by the seagrass genus *Phyllospadix*
L.W. Cooper and C.P. McRoy (Fairbanks, AK, U.S.A.) 365
Seasonal distribution and variation in the nutritional quality of different fractions of two seagrass species from Aqaba (Red Sea), Jordan
M.I. Wahbeh (Aqaba, Jordan) 383

Short Communications

Phosphorus toxicity in *Chara*
I. Blindow (Lund, Sweden) 393
A rare occurrence of polyembryony in the seagrass *Halophila decipiens* Ostenfeld
K.K. Lakshmanan and S. Poornima (Coimbatore, Tamil Nadu, India) 397

Book Reviews

Nitrogen cycle 401
European diatoms 402

Author Index 405